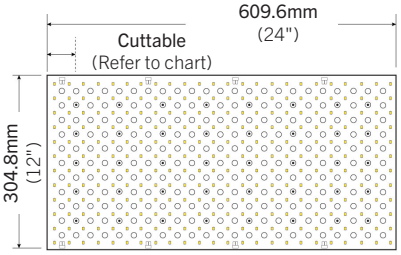
LFS-2412

FLEXIBLE INDOOR LED SHEET MODULES

INDOOR | 90+ CRI | DIMMABLE | c UL us LISTED | 5 YEAR WARRANTY

INSTALLATION GUIDE

DIMENSIONS



MODEL	CUTTABLE (L x W)
LFS-2412	1" x 1"
LFS-2412 RGB	3" x 2"
LFS-2412 RGBW	3" x 2"
LFS-2412 MX	3" x 2"

PRE-INSTALLATION

Surface Mount

Power input is 24V. Confirm the source voltage is compatible.

Disconnect power source prior to installation.

SAFETY

Read all instructions before installation.

These products may present a possible shock, serious injury, or death if improperly installed.

Do not install in wet locations.

Do not cut or alter LED sheets while powered.

Product should be installed by a qualified electrician.

Product should be installed in accordance with these instructions and current electrical codes.

To reduce the risk of fire or ovreheating, all connections should be tight and secure.

INSTALLATION (SINGLE)

STEP 1

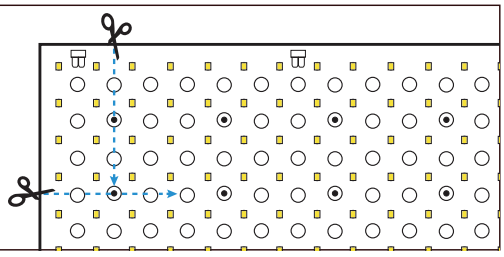
Measure the desired size to be cut. Using a pair of scissors, sheers, utility knife or precision/ craft knife, cut the LED sheet. *(Figure 1)*

** Sheets can be cut horizontally or vertically (1"x1" minimum). Follow the guidelines on the LED sheets.*

** Round off to the nearest square inch interval.*

** If a cut edge has the possibility of making contact with a conduitive surface such as as a metal heat sink and/or another cut edge, cover the edge with RTV silicone sealant or conformal coating.*

Figure 1



STEP 2

FLAT/ SMOOTH SURFACES

Remove the backing to expose the adhesive. Gently adhere the LED sheet to your chosen surface. *(Figure 2A)*

ROUGH/ TEXTURED SURFACES

Secure the LED sheet to your chosen suface using appropriate screws. *(Figure 2B)*

** Factory recommends using pan head, domed, or round head screws.*

** Any penetration of the LED sheets should be made inside of the concentric circles marked on the sheet.*

Figure 2A

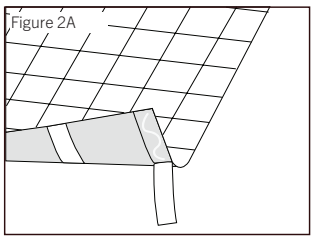
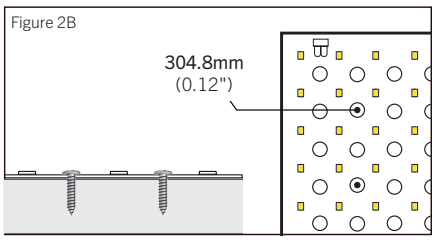


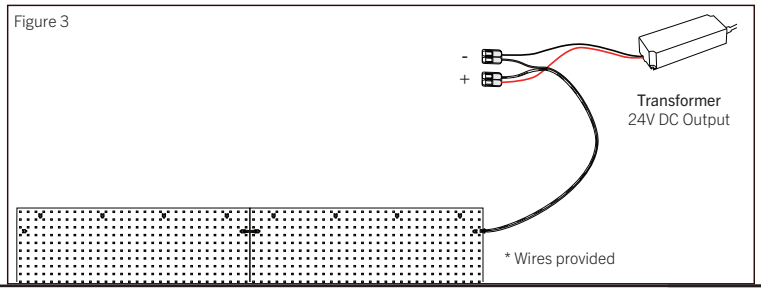
Figure 2B



STEP 3

Wire accordingly.

Figure 3



INSTALLATION (MULTIPLE)
MULTIPLE LED SHEETS

STEP 1

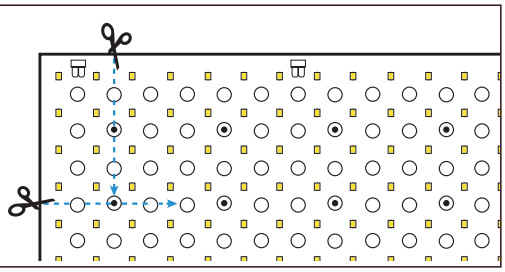
Measure the desired size to be cut. Using a pair of scissors, sheers, utility knife or precision/ craft knife, cut the LED sheet. *(Figure 1)*

** Sheets can be cut horizontally or vertically (1"x1" minimum). Follow the guidelines on the LED sheets.*

** Round off to the nearest square inch interval.*

** If a cut edge has the possibility of making contact with a conduitive surface such as as a metal heat sink and/or another cut edge, cover the edge with RTV silicone sealant or conformal coating.*

Figure 1



STEP 2

SHORT CONNECTION

When adjacent LED sheets are side-by-side with terminal blocks aligned, short connection wires should be used to internconnect multiple sheets. *(Figure 2A)*

If the connection is made after the LED sheets are mounted to a fixed surface, the wires will need to be shaped as shown prior to pushing into the terminal blocks. *(Figure 2B)*

Figure 2A

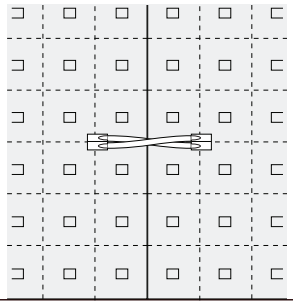
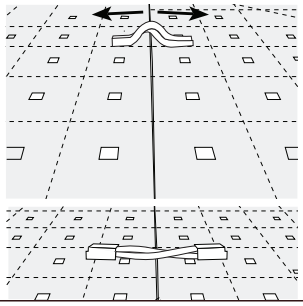


Figure 2B



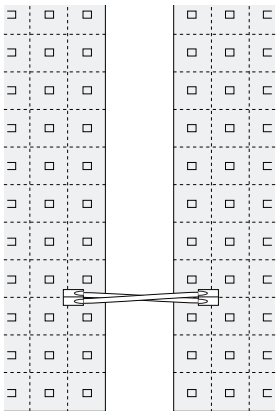
LONG CONNECTION

When LED sheets are mounted with gaps or offset, long connection wires should be used to internconnect multiple sheets. *(Figure 2C)*

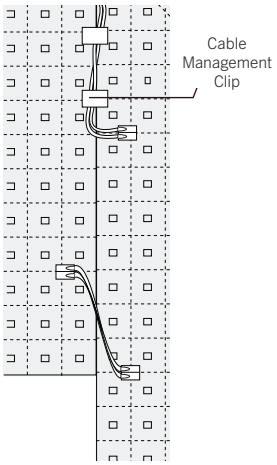
Route the connection wires so that the light from the LEDs uis not blocked and secure in position using cable management clips with a silicone adhesive backing.

* A maximum of 4 sheets can be linked together.

Figure 2C



*Bridge gaps between LED sheets



*Bridge offset LED sheets

STEP 3

FLAT/ SMOOTH SURFACES

Remove the backing to expose the adhesive. Gently adhere the LED sheet to your chosen surface. *(Figure 3A)*

ROUGH/ TEXTURED SURFACES

Secure the LED sheet to your chosen suface using appropriate screws. *(Figure 3B)*

** Factory recommends using pan head, domed, or round head screws.*

** Any penetration of the LED sheets should be made inside of the concentric circles marked on the sheet.*

Figure 3A

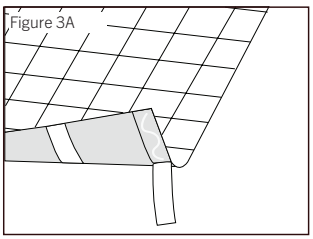
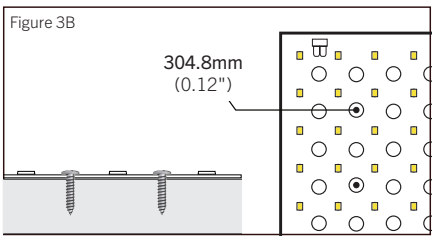


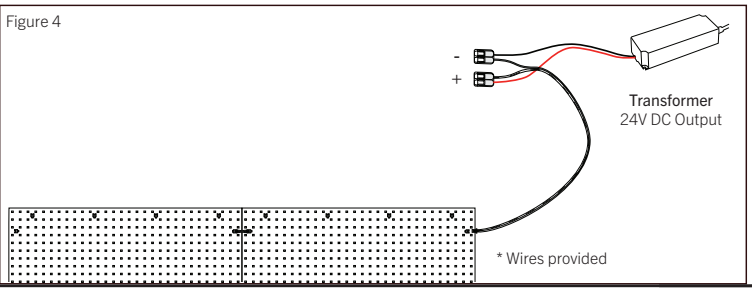
Figure 3B



STEP 4

Wire accordingly.

Figure 4



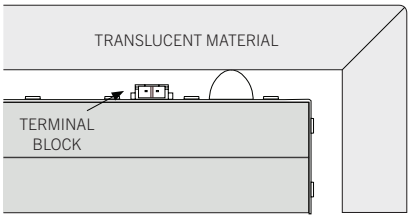
BUMPERS (RECOMMENDED)
LFS-BMP-25 | LFS-BMP-40

Designed to bear the weight of translucent materials in horizontal applications and act as a safeguard in vertical installations, it is recommended to use bumpers to protect the terminal blocks and LEDs on the LED sheets.

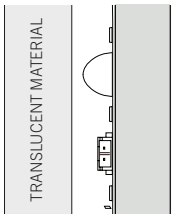
APPLICATION

Peel and stick bumpers (sold separately) evenly to distribute the weight of the material resting on top of the installed LED sheet.

**Factory recommends using 8 bumpers per LED sheet.*



HORIZONTAL



VERTICAL

INSTALLATION TIPS
CUSTOMIZING YOUR LED SHEET

MAKING A FOLD

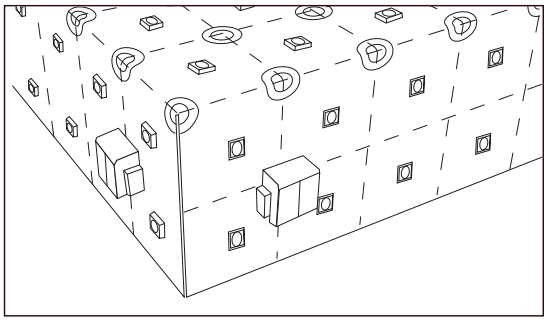
Bend the sheet along one of the lines marked on the sheet and crease into a 90° (or other desired) angle.

**Be careful about folding where an LED is attached to the sheet since LEDs can break if forced.*

SQUARE CORNERS

Cut squares out of each corner of a dry-fit arrangement, finding the nearest cut line that fits the design. Fold the LED sheet over the base material so that the cut edges meet vertically.

This will provide uniform spacing for the translucent material.

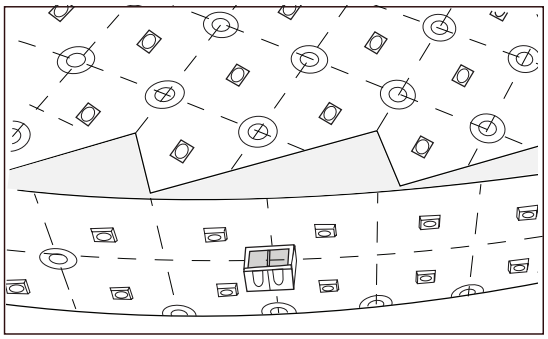


SQUARE CORNER

ROUND CORNERS

When adjacent LED sheets are side-by-side with terminal blocks aligned, short connection wires should be used to internconnect multiple sheets. *(Figure 2A)*

If the connection is made after the LED sheets are mounted to a fixed surface, the wires will need to be shaped as shown prior to pushing into the terminal blocks. *(Figure 2B)*



ROUND CORNER

REMOVING TERMINAL BLOCKS

If one or more terminal blocks exist on a cut/fold line, it is best to remove the connection block to make a clean fold or cut.

Using a pair of slip-joint pliers, firmly grasp the terminal block and rotate either clockwise or counter-clockwise while holding the LED sheet in place to remove the terminal block.

Repeat as needed and discard any removed blocks.